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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/700,012	11/03/2003		Detlef John	JOHN	3679
20151	7590	08/02/2005		EXAMINER	
HENRY M	FEIERE	EISEN, LLC	MUROMOTO JR, ROBERT H		
••••	350 FIFTH AVENUE SUITE 4714 NEW YORK, NY 10118				PAPER NUMBER
1.2 1011	-,				

**DATE MAILED: 08/02/2005** 

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/700,012	JOHN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Robert H. Muromoto, Jr.	3765				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nety filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 03 No	ovember 2003.					
	action is non-final.					
3) Since this application is in condition for allowar						
closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdray  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-11 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
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AMaah						
Attachment(s)  1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO_413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/3/2003.	5)  Notice of Informal Page 6) Other:	atent Application (PTO-152)				

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#### **DETAILED ACTION**

## **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-11 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Pall '650.

Pall discloses a method of forming perforate metal sheets useful in filter applications. The invention contemplates the formation of a rigid perforate metallic sheet by preparing in a weaving operation a plain or square weave mesh using metallic filaments. The wire mesh should be stabilized as to the relative positions of the metallic filaments. In the case of a simple square weave in which both the warp and weft filaments are equally spaced, the initial stabilization of the weave pattern can be effected by integrating the interwoven filaments at the crossover points by sintering (col. 4, lines 21-32).

The limitation regarding the diameter of the weft with respect to the spacing between the neighboring warp yarns is inherent to Pall. In a plain weave, with a 325 x 325 square weave mesh as shown in example A, the clear spacing between two

adjacent warp filaments must be equal to the diameter of a single warp filament. Since the fabric uses the same diameter (.0013in) filament for both warp and weft, the weft diameter is equal to the spacing between two adjacent warp filaments as recited in claim 1.

The limitation regarding the constriction of the weft filament in crossing regions of the warp and weft is also inherent to Pall or any fabric. The structure of any woven has some tension between the warp layers and therefore is always exerting some compression or constriction on the weft yarns.

Additionally, the fabric in Pall is subjected to further pressure application processes that reduce the thickness of the fabric by 5 to 65%. This pressure equates to a constriction force on the weft filaments as well, as recited in claims 2 and 4.

The embodiment in example A, discloses a filament having a .0013in diameter. Upon conversion to millimeters, .0013in = .03302 mm. .03302mm is well within the ranges recited in claims 3, 6 and 7.

Example A, also discloses a 325 X 325 mesh weave. 325 wires per inch is clearly within the range recited in claim 8.

Pall also discloses an embodiment that would be extremely thin, where a 200 x 1500 wire mesh is produced from warp wires .0029 in and weft wires .0013 in (col. 5, lines 70-750). The 1500 wires per inch corresponding the weft, this weft density clearly within the range recited in claim 9. And the diameters disclosed clearly providing the limitations recited in claim 5.

### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert H. Muromoto, Jr. whose telephone number is 571-272-4991. The examiner can normally be reached on 8-530, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Calvert can be reached on 703-305-1025. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bhm 7/29/2005

JOHN CALVERT
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700